

### **REMARKS**

Claims 9-16 are currently pending in the subject application. Claims 9 and 14 have been amended. Claim 13 has been canceled. Claims 9, 10 and 14-15 are independent. Claims 9-12 and 14-16 are presented to the Examiner for further prosecution on the merits.

#### **A. Introduction**

In the outstanding Office Action Made Final, the Examiner rejected claim 13 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,764,052 to Renger (hereinafter "the Renger reference"), rejected claims 9 and 14 under 35 U.S.C. § 103(a) as being unpatentable over the Applicants' Admitted Prior Art ("the AAPA") in view of the Renger reference, and allowed claims 10-12, 15 and 16.

#### **B. Asserted Anticipation Rejection of Claim 13**

In the outstanding Office Action Made Final, the Examiner rejected claim 13 under 35 U.S.C. § 102(b) as being anticipated by the Renger reference. Claim 13 has been canceled, thereby obviating this rejection.

#### **C. Asserted Obviousness Rejection of Claims 9 and 14**

In the outstanding Office Action Made Final, the Examiner rejected claims 9 and 14 under 35 U.S.C. § 103(a) as being unpatentable over the AAPA in view of the Renger reference. Claims 9 and 14 have been amended to more clearly recite the present invention. It is respectfully submitted that claims 9 and 14 are allowable over the AAPA in view of the Renger reference for at least the reasons set forth below.

Claims 9 and 14 now recite, in part:

logical-operating the pulse from the pulse generator with the control signal from the pulse controller and outputting the logical operated signal to the first and second current amplifiers.

An example of this logical operation is shown in FIG. 4 of the original specification, in which an AND gate operation is illustrated. It is respectfully submitted that while AND is the only logical operation explicitly disclosed, other logical operators may be employed, e.g., a NOR gate, as long as when the output of the A/D converter is finished, if the pulse controller is to output a high pulse, the pulse output may be prevented, as set forth, for example, in paragraph [0031] of the original specification.

In the Renger reference, after  $V_{out}$  is measured, the microprocessor 32 outputs a low level voltage. (*The Renger reference*, col. 7, lines 22-26). This is the same operation of the pulse controller of claims 9 and 14. However, the low-level voltage output by the microprocessor 32 in the Renger reference turns off the transistor 34 to charge the capacitor 38. In contrast, the low level voltage output by the pulse controller in the present invention, as now clearly recited in claims 9 and 14, stops the pulse signal output operation of the pulse generator to prevent unnecessary power consumption.

Therefore, it is respectfully submitted that neither the AAPA nor the Renger reference, either alone or in combination, suggest, much less disclose, the present invention as now recited in claims 9 and 14. Therefore, it is respectfully requested that this rejection be withdrawn.

D. Allowed Claims

Applicants appreciate the Examiner's allowance of claims 10-12, 15 and 16. However, it is respectfully submitted that all of the claims are now in condition for allowance.

E. Entry of Amendment Requested

Entry of the above amendment after final is respectfully requested. The amendments to the claims substantially incorporate subject matter indicated as allowable into rejected

claims, i.e., substituting the AND operation recited in allowed claims with the more general logical operation. Therefore, the above amendment reduces issues and consideration thereof does not impose an undue burden on the Examiner

F. Conclusion

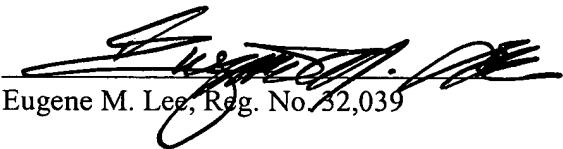
If the Examiner believes that additional discussions or information might advance the prosecution of the instant application, the Examiner is invited to contact the undersigned at the telephone number listed below to expedite resolution of any outstanding issues.

In view of the foregoing amendments and remarks, reconsideration of this application is earnestly solicited, and an early and favorable further action upon all the claims is hereby requested.

Respectfully submitted,

LEE & MORSE, P.C.

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**PETITION and**  
**DEPOSIT ACCOUNT CHARGE AUTHORIZATION**

This document and any concurrently filed papers are believed to be timely. Should any extension of the term be required, applicant hereby petitions the Director for such extension and requests that any applicable petition fee be charged to Deposit Account No. 50-1645.

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

Any additional fee(s) necessary to effect the proper and timely filing of the accompanying-papers may also be charged to Deposit Account No. 50-1645.